Reviewer’s report

Title: Prevalence of dyslipidemia and its association with insomnia in a community based population in China

Version: 2 Date: 25 August 2014

Reviewer: Erik Berglund

Reviewer’s report:

Major Compulsory Revisions

Major comments:

1. Conclusion in abstract must be restricted to women with frequent insomnia.
2. Line 67: Change: “evidence” to “research”.
3. Line 111-113: reference on defined diabetes and hypertension is needed.
4. In the Methods section the gender and age distribution of the sample should be included. Preferably under a “Sample” heading.
5. Number of participants and response rate must be including in the Methods section.
6. Cochran-Armitage method is not a well-known method, explain it more and describe more closely were it have been used on the data.
7. In results, please provide numbers of those with no, occasional and frequent insomnia.
8. In table 1, please provide absolute numbers in top of columns of the subgroups.
9. Are the analyses in table 3 logistic regressions? Why, if your outcome variable is continuous and normally distributed? If a true association exist wouldn’t it be easier to find it in a linear regression? Please elaborate on this and if possible include the results of such test in a sensitivity analysis in relation to your other findings.
10. The authors adequately conclude in limitations that no conclusions about causality can be drawn from the study. Yet their phrasing (in the abstract conclusion and in line 179) is that insomnia is associated with a higher risk of dyslipidemia, which easily could be misunderstood as a causal statement. Please rephrase in abstract as well as in discussion/conclusion that insomnia was associated with higher occurrence/prevalence of dyslipidemia.
11. There is a need to demonstrate that results of this study have meaningful implications. The authors have not presented convincing evidence that insomnia is predictive of treatment outcomes and that modifying this factor improves health outcomes on dyslipidemia in women.
Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interests.